Cleveland Municipal City School District
Grade 8
Public Schools

Snapshot Report

NCES 2007-455XV8

The National Assessment of Educational Progress (NAEP) assesses science in two major dimensions: Fields of Science (Earth, Physical, and Life) and Knowing and Doing Science (Conceptual Understanding, Scientific Investigation, and Practical Reasoning). The NAEP science scale ranges from 0 to 300. Scales are created separately for each grade. In 2005, Cleveland Municipal City School District was one of ten urban districts that voluntarily participated in the NAEP science assessment on a trial basis.

Overall Science Results for Cleveland

- In 2005, the average scale score for eighth-grade students in Cleveland was 122. This was lower than the average score in the nation (147).¹
- Cleveland's average score (122) in 2005 was lower than that of public schools in large central cities (132).²
- The percentage of students in Cleveland who performed at or above the NAEP *Proficient* level was 5 percent in 2005. This percentage was smaller than that in large central cities (15 percent).
- The percentage of students in Cleveland who performed at or above the NAEP Basic level was 26 percent in 2005. This percentage was smaller than that in large central cities (39 percent).

Cleveland (public) 2005 74 21 5 # Large central city (public) 2005 61* 24 14* 2 Nation (public) 2005 43* 30* 24* 3 Percent below Basic Percent at Basic, Proficient, and Advanced

NOTE: The NAEP grade 8 science achievement levels correspond to the following scale points: Below *Basic*, 142 or lower; *Basic*, 143–169; *Proficient*, 170–207; *Advanced*, 208 or above.

Performance of NAEP Reporting Groups in C	leveland: 2005					
	Percent	Average	Percent	Percent of stude	ents at or above	Percent
Reporting groups	of students ³	score	below Basic	Basic	Proficient	Advanced
Male	48	123↓	74↑	26↓	6↓	#
Female	52	122↓	75↑	25↓	4↓	#
White	18↓	138↓	53↑	47↓	11↓	#
Black	71↑	117	81	19	3	#
Hispanic	9↓	130↑	69	31	8	#
Asian/Pacific Islander	#↓	#	‡	‡	‡	‡
American Indian/Alaska Native	1	#	#	‡	‡	‡
Eligible for free/reduced-price school lunch	100	122	74	26	5	#
Not eligible for free/reduced-price school lunch	#	‡	‡	‡	‡	‡

Average Score Gaps Between Selected Groups

- In 2005, male students in Cleveland had an average score that
 was not significantly different from that of female students. In large
 central cities, the average score for male students was higher than
 that of female students by 3 points.
- In 2005, Black students had an average score that was lower than that of White students by 21 points. This performance gap was narrower than that of the large central cities (39 points).
- In 2005, Hispanic students had an average score that was not significantly different from that of White students (gap of 8 points).
 In large central cities, the average score for Hispanic students was lower than that of White students by 35 points.
- Data are not reported for students who were not eligibile for free/reduced-price school lunch in Cleveland in 2005, because reporting standards were not met. Therefore, the performance gap results are not reported.
- In 2005, the score gap between students at the 75th percentile and students at the 25th percentile was 42 points. This performance gap was narrower than that of the large central cities (50 points).

Science Scale Scores at Selected Percentiles

Scale Score Distribution

	25 th Percentile	50 th Percentile	75 th Percentile
Cleveland	102	123	144
Large central city (public)	107*	132 *	157 *
Nation (public)	124 *	150 *	172 *

Scores at selected percentiles on the NAEP science scale indicate how well students at lower, middle, and higher levels performed. For example, the data above show that 75 percent of students in public schools nationally scored below 172, while 75 percent of students in Cleveland scored below 144.

[#] The estimate rounds to zero.

[‡] Reporting standards not met.

^{*} Significantly different from Cleveland.

[↑] Significantly higher than large central cities. ↓ Significantly lower than large central cities.

¹ Comparisons (higher/lower/not different) are based on statistical tests. The .05 level was used for testing statistical significance. Comparisons across jurisdictions and comparisons with the nation or within a jurisdiction across years may be affected by differences in exclusion rates for students with disabilities (SD) and English language learners (ELL). The exclusion rates for SD and ELL in Cleveland Municipal City School District were 6 percent and 1 percent in 2005, respectively. Statistical comparisons are calculated on the basis of unrounded scale scores or percentages.

² "Large central city" includes public schools located in large central cities (population 250,000 or more) within metropolitan statistical areas as defined by the federal Office of Management and Budget. It is not synonymous with "inner city."

³ For comparison, non-White students comprised 77 percent of students in large central city public schools and 40 percent in public schools nationally. Also, students

For comparison, non-white students comprised // percent of students in large central city public schools and 40 percent in public schools nationally. Also, students eligible for free/reduced-price school lunch comprised 62 percent of students in large central city public schools and 39 percent in public schools nationally. NOTE: Detail may not sum to totals because of rounding and because the "Information not available" category for free/reduced-price school lunch and the "Unclassifed" category for race/ethnicity are not displayed. Visit http://nces.ed.gov/nationsreportcard/science/tuda.asp for additional results and detailed information. SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2005 Trial Urban District Science Assessment.